# JAM3 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | JAM3, Polyclonal Antibody |
| **Full Product Name** | JAM3 (Junctional Adhesion Molecule C, JAM-C, JAM-2, Junctional Adhesion Molecule 3, JAM-3, JAM3) (Biotin) |
| **Product Gene Name** | anti-JAM3 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes JAM3. Species Crossreactivity: human, mouse, rat |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 29,223 Da |
| **OMIM** | 606871 |
| **3D Structure** | ModBase 3D Structure for Q9BX67 |
| **Immunogen** | KLH conjugated synthetic peptide corresponding to aa261-295 at the C-terminal region of human JAM3. |
| **Conjugate** | Biotin |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-JAM3 antibody** | Antibodies; Connexin; Junction Proteins |
| **Applications Tested/Suitable for anti-JAM3 antibody** | Western Blot (WB) |
| **Application Notes for anti-JAM3 antibody** | WB: 1:1000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-JAM3 antibody** | MBS6456769 is an antibody targeting JAM3. Also known as JAM3 (Junctional Adhesion Molecule C, JAM-C, JAM-2, Junctional Adhesion Molecule 3, JAM-3, JAM3) (Biotin). Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **Product References and Citations for anti-JAM3 antibody** | Arrate M.P., et al. J. Biol. Chem. 276:45826-45832(2001). Aurrand-Lions M.A., et al. Blood 98:3699-3707(2001). Santoso S., et al. J. Exp. Med. 196:679-691(2002). Phillips H.M., et al. Genomics 79:475-478(2002). Ota T., et al. Nat. Genet. 36:40-45(2004). |
| **Other Notes** | Small volumes of anti-JAM3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for JAM3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 328927057 |
| **NCBI GeneID** | 83700 |
| **NCBI Accession #** | NP_001192258.1 |
| **UniProt Primary Accession #** | Q9BX67 |
| **UniProt Secondary Accession #** | Q8WWL8; Q96FL1; B3KWG9 |
| **UniProt Related Accession #** | Q9BX67 |
| **GenBank Nucleotide #** | NM_001205329.1 |
| **NCBI Official Full Name** | junctional adhesion molecule C isoform 2 |
| **NCBI Official Synonym Full Names** | junctional adhesion molecule 3 |
| **NCBI Official Symbol** | JAM3 |
| **NCBI Official Synonym Symbols** | JAMC; JAM-2; JAM-3; JAM-C |
| **UniProt Protein Name** | Junctional adhesion molecule C |
| **UniProt Synonym Protein Names** | JAM-2; Junctional adhesion molecule 3; JAM-3 |
| **Protein Family** | Junctional adhesion molecule |
| **UniProt Gene Name** | JAM3 |
| **UniProt Synonym Gene Names** | JAM-C; JAM-3 |
| **UniProt Entry Name** | JAM3_HUMAN |
| **NCBI Protein Information** | junctional adhesion molecule C |
| **NCBI Summary for JAM3** | Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. The protein encoded by this immunoglobulin superfamily gene member is localized in the tight junctions between high endothelial cells. Unlike other proteins in this family, the this protein is unable to adhere to leukocyte cell lines and only forms weak homotypic interactions. The encoded protein is a member of the junctional adhesion molecule protein family and acts as a receptor for another member of this family. A mutation in an intron of this gene is associated with hemorrhagic destruction of the brain, subependymal calcification, and congenital cataracts. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Apr 2011] |

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| **UniProt Comments for JAM3** | JAM3: Participates in cell-cell adhesion. It is a counter- receptor for ITGAM, mediating leukocyte-platelet interactions and is involved in the regulation of transepithelial migration of polymorphonuclear neutrophils (PMN). The soluble form is a mediator of angiogenesis. Defects in JAM3 are the cause of hemorrhagic destruction of the brain with subependymal calcification and cataracts (HDBSCC). A syndrome characterized by congenital cataracts and severe brain abnormalities apparently resulting from hemorrhagic destruction of the brain tissue, including the cerebral white matter and basal ganglia. Patients manifest profound developmental delay, and other neurologic features included seizures, spasticity, and hyperreflexia. Brain imaging shows multifocal intraparenchymal hemorrhage with associated liquefaction and massive cystic degeneration, and calcification in the subependymal region and in brain tissue. Belongs to the immunoglobulin superfamily. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Membrane protein, integral; Cell adhesion<br><br>Chromosomal Location of Human Ortholog: 11q25<br><br>Cellular Component: Golgi apparatus; desmosome; extracellular space; tight junction; plasma membrane; integral to membrane<br><br>Molecular Function: integrin binding; protein binding; protein homodimerization activity; protein heterodimerization activity<br><br>Biological Process: myelination; adaptive immune response; extracellular matrix organization and biogenesis; axon regeneration; cell-matrix adhesion; transmission of nerve impulse; neutrophil homeostasis; leukocyte migration during inflammatory response; myeloid progenitor cell differentiation; establishment of cell polarity; angiogenesis; blood coagulation; leukocyte migration; spermatid development<br><br>Disease: Hemorrhagic Destruction Of The Brain, Subependymal Calcification, And Cataracts |
| **Research Articles on JAM3** | **1.** Function of Jam-B/Jam-C interaction in homing and mobilization of human and mouse hematopoietic stem and progenitor cells. |
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